

**AMENDMENTS TO THE CLAIMS, COMPLETE LISTING OF CLAIMS**  
**IN ASCENDING ORDER WITH STATUS INDICATOR**

Please amend the following claims as indicated.

1. (Withdrawn) A method for enrichment/separation of a protein or a peptide, comprising separating a protein or a peptide containing an amino acid residue with a  $\pi$  electron-containing group by using a media with a  $\pi$  electron-containing group.
2. (Withdrawn) The method according to claim 1, wherein the amino acid residue with a  $\pi$  electron-containing group is tryptophan residue.
3. (Withdrawn) The method according to claim 1, wherein the  $\pi$  electron-containing group of the media is phenyl group.
4. (Currently Amended) A method for enrichment/separation of ~~a protein or a peptide~~ containing an amino acid residue modified with an aromatic hydrocarbon group, said method comprising  
separating ~~a protein or a peptide containing an amino acid residue with a  $\pi$  electron-containing modifying group, which is modified with a  $\pi$  electron-containing compound, an aromatic hydrocarbon group~~ by using a media with a  $\pi$  electron-containing group comprising an aromatic hydrocarbon group.
5. (Currently Amended) The method according to claim 4, wherein the amino acid residue is a tryptophan residue.
6. (Canceled).

7. (Currently Amended) The method according to claim ~~6~~ 4, wherein ~~the sulfenyl compound is the peptide containing the amino acid residue modified with an aromatic group is~~ obtained by modifying a peptide with 2-nitrobenzene sulfenyl chloride.

8. (Currently Amended) The method according to claim 4, wherein ~~the  $\pi$  electron-containing~~ aromatic hydrocarbon group of the media is a phenyl group.

9. (Withdrawn) A method for enrichment/separation of a peptide, comprising the steps of:

fragmenting a protein or a peptide containing an amino acid residue with a  $\pi$  electron-containing group, to obtain a fragmented sample solution which contains a peptide fragment containing the amino acid residue with the  $\pi$  electron-containing group and a peptide fragment with no  $\pi$  electron-containing group; and

exposing the fragmented sample solution to a media with a  $\pi$  electron-containing group, to separate the peptide fragment containing the amino acid residue with the  $\pi$  electron-containing group from the peptide fragment with no  $\pi$  electron-containing group.

10. (Withdrawn - Currently Amended) A method for enrichment/separation of a peptide, said method comprising the steps of:

modifying a protein or a peptide with an aromatic hydrocarbon-containing compound ~~a  $\pi$  electron-containing compound~~ to obtain a sample solution which contains a protein or a peptide containing an amino acid residue modified with an aromatic hydrocarbon ~~a  $\pi$  electron-containing~~ modifying group;

fragmenting the protein or the peptide containing the amino acid residue modified with the  $\pi$  electron-containing modifying the aromatic hydrocarbon group, to obtain a fragmented sample solution which contains a peptide fragment containing the amino acid residue modified with the aromatic hydrocarbon ~~the  $\pi$  electron-containing~~ group and a peptide fragment with no amino acid residue modified with the aromatic hydrocarbon group  ~~$\pi$  electron groups~~; and

exposing the fragmented sample solution to a media ~~with comprising an aromatic hydrocarbon- $\pi$ -electron-containing~~ group, to separate the peptide fragment containing the amino acid residue modified with the aromatic hydrocarbon- $\pi$ -electron-containing group from the peptide fragment with no amino acid residue modified with the aromatic hydrocarbon- $\pi$ -electron-containing group.